

Claims

8791 1. A rotary conveyor comprising:
a drum-shaped shell having openings;
an eccentric axle arranged inside the shell, the eccentric axle defining an axial direction;

finger supports being rotatively mounted to the eccentric axle by bearings, the finger supports extend radially outward from and parallel to the eccentric axle;

a plurality of fingers are mounted to each finger support, the fingers extending through the openings in the drum-shaped shell such that fingers on one finger support are arranged next to one another in the axial direction, the finger supports ~~are distributed around the circumference of the eccentric axle~~

2. A rotary conveyor as defined by claim 1 wherein that portion of the shell having fingers is provided with three finger supports that are distributed along the eccentric axle.

3. A rotary conveyor as defined by claim 1 wherein the finger supports are offset relative to one another in the axial direction.

4. A rotary conveyor as defined by claim 3 wherein the finger supports are identical to one another.

5. ~~A rotary conveyor as defined by claim 4 wherein each finger support is mounted on the eccentric axle by several annular bearings spaced apart in the axial direction along the eccentric axle.~~

6. A rotary conveyor as defined by claim 5 wherein the finger supports extend ~~over that portion of the drum-shaped shell having openings for the fingers.~~

8792 7. ~~A rotary conveyor as defined by claim 6 wherein the fingers are removably attached to the finger supports.~~

8. A rotary conveyor as defined by claim 7 wherein the fingers are screwed into threaded openings in the finger supports.

9. A rotary conveyor as defined by claim 8 wherein the fingers are secured on the finger supports by locking nuts.

8793 10. ~~A rotary conveyor comprising:~~

93 a rotatable drum-shaped shell having openings;
a non-rotating eccentric axle arranged inside the shell, the non-rotating eccentric axle defining an axial direction;

finger supports being rotatively mounted to the non-rotating eccentric axle by bearings, the finger supports extend radially outward from and parallel to the non-rotating eccentric axle;

a plurality of fingers are mounted to each finger support, the fingers extending through the openings in the drum-shaped shell such that fingers on one finger support are arranged next to one another in the axial direction

11. A rotary conveyor as defined by claim 10 wherein each finger support is mounted to the non-rotating eccentric axle by at least two annular bearings.

12. A rotary conveyor as defined by claim 11 wherein the finger supports are offset relative to one another in the axial direction.

13. A rotary conveyor as defined by claim 12 wherein the finger supports are identical to one another.

14. A rotary conveyor as defined by claim 10 wherein the fingers are removably attached to the finger supports.

15. A rotary conveyor as defined by claim 14 wherein the fingers are screwed into threaded openings in the finger supports.

16. A rotary conveyor as defined by claim 15 wherein the fingers are secured on the finger supports by locking nuts.

17. A rotary conveyor comprising:

a rotatable shell having openings;
a non-rotating eccentric axle arranged inside the shell;
finger supports being rotatively mounted to the non-rotating eccentric axle by bearings, the finger supports extend radially outward from and parallel to the non-rotating eccentric axle, the finger supports being located inside the rotatable shell;
a plurality of fingers are mounted to each finger support, the fingers extending through the openings in the shell.